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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/346,283	07/01/1999	MICHAEL R. FLANNERY	450.202US1	2222

24333 7590 08/01/2003

GATEWAY, INC.  
ATTN: SCOTT CHARLES RICHARDSON  
610 GATEWAY DRIVE  
MAIL DROP Y-04  
N. SIOUX CITY, SD 57049

EXAMINER

DIAZ, JOSE R

ART UNIT

PAPER NUMBER

2815

DATE MAILED: 08/01/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/346,283	<b>Applicant(s)</b> FLANNERY, MICHAEL R.	
	<b>Examiner</b> José R Díaz	<b>Art Unit</b> 2815	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 28 April 2003.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-7 and 12-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 12-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All   b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                  | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s): _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

➤ The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

➤ Claims 1-3, 7, 12-15, 17, 20 and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Wunderman et al. (US Pat. No. 6,122,042).

Regarding claims 1, 12, 13, 14, 15, 20 and 21, Wunderman et al. teach a device comprising a semiconductor support substrate (100) supporting a sensor element (114), a logic circuit (104, 106) and a semiconductor visual display element (102) (see Fig. 6A).

Regarding claims 2 and 3, Wunderman et al. teach a semiconductor display element (102) comprising an array of GaAs light-emitting pn junctions (see col. 6, lines 56-59 and col. 23, line 14).

Regarding claims 7 and 17, Wunderman et al. teach that the sensor element (114) is selected from the group consisting of strain gauges, thermal gauges, radiation gauges and chemically responsive gauges (see Fig. 6A).

➤ Claims 1, 7, 12-15, 17-18 and 20-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Zhang et al. (US 2002/0125410 A1).

Regarding claims 1, 12, 13, 14, 15, 20 and 21, Zhang et al. teaches an IC comprising a semiconductor support substrate (10) supporting a micromechanical sensor element (30), a logic circuit (40) and a semiconductor visual display element (20) (see Fig. 1).

Regarding claims 7, 17, and 18, Zhang et al. teaches that the sensor is comprised of a radiation gauges (30) (see Fig. 1).

➤ Claims 1-2, 7, 12-16, 17-18 and 20-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Cooper (US 2002/0003169 A1).

Regarding claims 1, 12-16, 20 and 21, Cooper teaches an IC comprising a semiconductor support substrate (3) supporting a micromechanical sensor element (6, 8, 9), a logic circuit (11) and a semiconductor visual display element (5, 12) (see Figs. 2-3 and paragraphs [0016], [0021], [0023], [0029] and [0032]).

Regarding claims 7, 17, and 18, Cooper teaches that the sensor is comprised of a radiation gauges (8) (see Fig. 2).

Regarding claim 2, Cooper teaches that the display is comprised of LED (see paragraph [0029]).

***Claim Rejections - 35 USC § 103***

➤ The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

➤ Claims 4-6 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wunderman et al. (US Pat. No. 6,122,042) in view of Ogihara et al. (US Pat. No. 6,222,208 B1).

Regarding claims 4-6 and 19, Wunderman et al. fail to teach that said visual display comprises an of light-emitting pn junctions and/or an array of semiconductor pixels having a pitch of about 20  $\mu\text{m}$ . Ogihara et al. teach that is well known in the art to use GaAs LEDs as display devices, wherein such GaAs LEDs comprise a pitch of about 20  $\mu\text{m}$  (see col. 1, lines 10-13 and 20-30, and col. 5, lines 12-15). Therefore, it would have been obvious to one having ordinary skill in the art at the same time the invention was made to modify Wunderman et al. to include GaAs LEDs comprising a pitch of about 20  $\mu\text{m}$ . The ordinary artisan would have been motivated to modify Wunderman et al. in the manner described above for at least the purpose of providing a high precision and bright display.

➤ Claims 3-6 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cooper (US 2002/0003169 A1) in view of Ogihara et al. (US Pat. No. 6,222,208 B1).

Regarding claim 3-6 and 19, Cooper fails to teach that said visual display comprises an array of semiconductor pixels having a pitch of about 20  $\mu\text{m}$ . Ogihara et al. teaches that is well known in the art to use GaAs LEDs as display devices, wherein such GaAs LEDs comprise a pitch of about 20  $\mu\text{m}$  (see col. 1, lines 10-13 and 20-30, and col. 5, lines 12-15). Therefore, it would have been obvious to one having ordinary skill in the art at the same time the invention was made to modify Cooper to include GaAs LEDs comprising a pitch of about 20  $\mu\text{m}$ . The ordinary artisan would have been motivated to modify Cooper in the manner described above for at least the purpose of providing a high precision and bright display.

### ***Response to Arguments***

➤ Applicant's arguments with respect to claims 1-7 and 12-21 have been considered but are moot in view of the new ground(s) of rejection. With regards to the arguments against Wunderman et al., applicant should note that the term micromechanical sensor includes a sensor that is capable of sensing radiation, i.e. visible light (see page 5, lines 1-2 of the specification). Please note that Wunderman et al. clearly discloses such sensor in, for example, col. 46, lines 3-6. In the cited passage Wunderman et al. states that the sensors (114) detect light. Thus, applicant's arguments are not persuasive since the reference Wunderman et al. anticipates the claimed invention.

### ***Conclusion***

➤ Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

### ***Correspondence***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to José R Díaz whose telephone number is (703) 308-6078. The examiner can normally be reached on 9:00-5:00 Monday, Tuesday, Thursday and Friday.

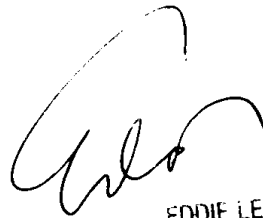
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone numbers for

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the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 746-3891 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JRD  
July 23, 2003



EDDIE LEE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800